Muhammad Jawad Haleem

linkedin.com/in/jawad-haleem ● *jawadhaleem44@gmail.com* ● +92 324-4830348

EDUCATION

FAST National University of Computer and Emerging Sciences　　*2020–2024*
BS Electrical Engineering (Computer Engineering, Embedded Systems, Machine Learning)
Government College University, Lahore　　*2018–2020*
Pre-Engineering: Physics, Chemistry, and Mathematics

WORK EXPERIENCE

AI Engineer　　*Nov 2024–Present*
Working on cutting-edge business solutions using LLMs, specializing in chatbot development with LangGraph. Gained hands-on experience designing AI-driven applications and improving problem solving skills through real-world projects.

PROJECTS

Submittal Extractor: Developed a Python-based pipeline that automatically identified and parse submittal approval sections from unstructured PDFs using PyPDF2, custom regex, and document fragmentation strategies.
RAG-Based Stock Bot: Developed stock recommendation bot using LLM agents and RAG for the cement industry, analyzing news articles to provide buy/sell/hold advice.
LangGraph Chat-bot: Developed customized LangGraph powered RAG chat-bot with Google Calendar event demos and contextual blog QA.
LaTeX to Python Conversion: Achieved the highest accuracy of 98.3% in converting LaTeX mathematical expressions to Python code by leveraging and fine-tuning the T5 model.
Final Year Project - Supercomputer as a Service　　*Aug 2023–Jun 2024*
Developed SCaaS platform using MPICH, Raspbian, MongoDB, Node.js with DevOps practices to enhance HPC cluster efficiency.
Solar and Wind Energy Prediction: Trained model to predict energy production for specific locations using historical data.

SKILLS AND TOOLS

Technical Skills: Python, NLP, RAG, LLM Agents, LangGraph, C/C++, Vertex AI, MATLAB, Vivado, AutoCAD, Cluster Computing
Professional Skills: Problem Solving, Time Management, Team Coordination

ACHIEVEMENTS

– Secured overall **1st place** in Advanced AI Bootcamp focusing on LLMs at SEECS, NUST
– Ranked among **top 500 students** in Huawei ICT competition
– **3rd place** in Speed Wiring Competition at NASCON

TRAINING & CERTIFICATION

– 8-Week Advanced AI Bootcamp on LLMs at SEECS, NUST　　*July 2024–Aug 2024*
– IEEE Project Exhibition – Participated and displayed DLD project